

COMPOSITIONS FOR ABRASIVE ARTICLES

Abstract

A structured abrasive article, methods of making an abrasive article, and methods of using an abrasive article. The abrasive composites forming the abrasive article have a height of at least 500 micrometers, and the abrasive particles in the composites have an average particle size of at least 40 micrometers, in some embodiments, at least about 85 micrometers. The large topography composites, together with the large ceramic abrasive particles, provides an abrasive article that has a more consistent cut, a longer cutting life, and a more consistent surface finish than conventional make/coat abrasive articles with the same size and type of abrasive particles. Additionally, the large topography composites, together with the large ceramic abrasive particles, provide an abrasive article that has a more consistent cut, a longer cutting life, and a more consistent surface finish than structured abrasive articles having a smaller topography, even with the same abrasive particles.